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(54) Title: COMPOSITIONS AND METHODS FOR TARGETED GENE INSERTION

(57) Abstract: DNA constructs and methods for targeted integration of heterologous genes into a genome are disclosed. A transposon/transposase system is used to generate the substrates for homologous recombination in transgenic organisms. Targeted integration is selected in progeny using a combination of positive and negative selection markers. By eliminating the negative selection, the constructs and methods are adaptable for performing activation tagging, which relies on random integration events.